

4/11/05

IN THE CLAIMS

Please amend the claims as follows:

1. (original) A full spectrum black-and-white reflective chiral nematic display, comprising:
  - (i) a chiral nematic display of controllable planar structure and focal conic structure;
  - (ii) two transparent substrates said substrates having conductive electrodes;
  - (iii) two elliptical polarizers;
  - (iv) said chiral nematic liquid crystal material being between the two transparent substrates;
  - (v) said liquid crystal material and said transparent substrates being between said polarizers; and
  - (vi) the display further comprising an optical reflector.
2. (original) A display device as defined in Claim 1, wherein one elliptical polarizer is of opposite polarity to the chiral nematic liquid crystal material.
3. (original) A display device as defined in Claim 1, wherein there is an optically "ON" bright state when the chiral nematic materials are in the focal conic state.
4. (original) A display device as defined in Claim 1, wherein said optically "ON" bright state of full spectrum white.
5. (original) A display device as defined in Claim 1, wherein there is an optically "OFF" dark state when the chiral nematic material is in the planar state.

6. (original) A display device as defined in Claim 1, wherein the chiral nematic material has the reflection spectrum of a particular peak wavelength and elliptical polarization.
7. (original) A display device as defined in Claim 1, wherein the two elliptical polarizers are of opposite polarities.
8. (original) A display device as defined in Claim 1, wherein the two elliptical polarizers are selected from the group comprising wideband and otherwise than wideband.
9. (original) A display device as defined in Claim 1, wherein the chiral nematic display is sandwiched between two orthogonal elliptical polarizers and wherein the reflector is laminated on the rear elliptical polarizer.
10. (original) A display device as defined in Claim 1, wherein the arrangement of front and rear elliptical polarizers is such that the light entering into the chiral nematic material from above or below is elliptically polarized.
11. (original) A display device as defined in Claim 1, wherein the arrangement of the rear elliptical polarizer is such that the light incident on the reflector is linearly polarized.
12. (original) A display device as defined in Claim 1, wherein the light leaving the front elliptical polarizer entering the chiral nematic material is elliptically polarized with opposite polarity to that of the chiral nematic material, the front elliptical polarizer being of opposite polarity to the chiral nematic material.
13. (original) A display device as defined in Claim 1, wherein the rear elliptical polarizer is of the same polarity as the chiral nematic material.

14. (original) A display device as defined in Claim 1, wherein the reflector is diffusive.

15. (original) A display device as defined in Claim 1, wherein the "ON" state is caused by depolarization of light passing through the focal conic state chiral nematic material.

16. (original) A display device as defined in Claim 1, wherein in the "ON" state of the device the depolarisation is independent of wavelength.

17. (original) A display device as defined in Claim 1, wherein in the "OFF" state of the device the opposite polarity of elliptically polarized light enters into the planar state chiral nematic material and passes through without any polarization change.

18 – 43 (cancelled)